

Page 1 of 1

All amounts are calculated in domestic currency.

Grouped by Vendor ID

[illegible]



Castle Metals®

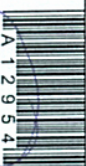
A. M. Castle & Co.

BORDEREAU DE MARCHANDISES
CERTIFICAT DE CONFORMITE

Page 1 of 2

No de Formulaire d'Emballage / Shipment No:2579981

Expédié de / Ship From:	Vendu à / Sold To:	Expédié à / Ship To:	Livré à / Deliver To:
A. M. Castle & Co. (Canada) Inc. MONTREAL - CASTLE METALS 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA
Date d'expédition / Date Shipped	F.O.B.	Modalités de transport / Freight Terms	Transporteur / Carrier
22-APR-2015	ORIGIN	Prepaid	MANITOULIN
		No du Bon de connaissance / BOL No	
		2579981-2	

Détails d'expédition / Shipment Details				Destination finale / Final Destination Branch - MON			
N° de commande / Order No	N° de ligne Line No	N° d'article / Item No	Description				
3813662	2	66090.BO	1.7500.2.0000.FLAT.303.STAINLESS.144.0000 SPECIFICATIONS: ASTM A582				
N° de bon de commande / Purchase Order No	Nbr de pièces / Part Number	Qté commandée / Ordered Qty		Qté Facturée / Invoice Qty			
28028		142.80 LBS		11.8333 FT			
Détails / Details							
END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS							
N° de livraison / Delivery No :	Usine / Mill	No de coulée / Heat Number	Code mec / Mech Id	Qty or PCS	Largeur / Width (IN)	Longueur / Length (IN)	Qté expédiée / Shipped Qty(LBS)
120023243		 A 1 2 9 5 4 I		1.0		142.0000	141.0000
<p>Ces marchandises/technologies sont sujettes aux règlements de l'Export Administration et du département d'état des États-Unis. Si elles ont été/sont exportées, elles doivent se conformer à ces règlements. Toute modification du contrat de transport contraire aux lois des États-Unis est interdite.</p> <p>These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, would require thererunder. Diversion contrary to US Law is Prohibited.</p> <p>Nous certifions par la présente que le matériel couvert par cette certification est conforme aux spécifications susmentionnées et aux exigences applicables pour le matériel, y compris toute spécification faisant partie de la description. Les rapports d'essai sont archivés pour fins de consultation. Toute requête concernant du matériel défectueux sera rejetée à moins qu'elle ne soit faite par écrit à A. M. Castile & Co, dans les 60 jours suivant la livraison. Le matériel coupé sur mesure ou coupé par le client ne peut être retourné pour crédit.</p>							

Ces marchandises/technologies sont sujettes aux règlements de l'Export Administration et du département d'état des États-Unis. Si elles ont été exportées, elles doivent se conformer à ces règlements. Toute modification du contrat de transport contraire aux lois des États-Unis est interdite.

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These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law prohibited.

Date Printed: 22-APR-2015 10:16:34 AM



Castle Metals®

A. M. Castle & Co.

**BORDEREAU DE MARCHANDISES
CERTIFICAT DE CONFORMITE**

Page 2 of 2

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Ce matériel a été reçu et inspecté par		Date:		Name:	
Reviewed by Authorized Castle Metals Representative:					



22 AVR. 2015



575 STATE FAIR BLVD.
SOLVAY, NY 13209

Certificate of Test

Cert Date: 01/15/15

SOLD TO
FRY STEEL COMPANY
13325 MOLETTE ST
SANTA FE SPRINGS, CA 90670

SHIP TO
FRY STEEL COMPANY
13325 MOLETTE ST
SANTA FE SPRINGS, CA 90670

CIL ORDER NO.
P5-18568-4-01

HEAT NO.
A12954

CIL INSIDE SALES REP.
L HINMAN

SHIPPED FROM
SOLVAY, NY USA

CUSTOMER P.O.
48166-5/S29450

CUSTOMER PART NO.
S29450

QUANTITY SHIPPED 1722 LBS. 1 BDL

DESCRIPTION OF MATERIAL

SIZE
2.000 X 1.750 FLAT
CRU 303 HRAP
AMS-5640-U (TYPE I) (EX FIN) ASTM-A484-13A ASTM-A582-12 E1 MIL-S-7720-AMD. 1
QQS-763-C COND A QQS-764-B (OBSOLETE) (COND A)

CHEMICAL ANALYSIS

C	MN	P	S	SI	NI	CR	MO	CU	CB	TA
.052	1.71	.028	.200	.55	9.39	17.64	.31	.41	.100	.002

AS SHIPPED PROPERTIES

HARDNESS
BHN 163/166

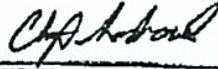
DAS
14
9-89
15/04/27

LONGITUDINAL
TENSILE PSI 86,800
YLD. 2% PSI 43,870
% ELONG4D 54.4
RED/AREA% 67.8

MACRO-ACCEPTABLE

FRY STEEL CO. CERTIFIES THAT THIS IS
A TRUE COPY OF THE ORIGINAL MILL TEST
REPORT NOW ON FILE
RECEIVED AND INSPECTED

JAN 19 2015

BY 
CHIP SANDOVAL - Q.C. MANAGER




THANK YOU FOR SELECTING A QUALITY PRODUCT MANUFACTURED WITH PRIDE AT CRUCIBLE INDUSTRIES LLC LOCATED IN SOLVAY, NY 13209, USA. ALL MELTING DONE IN USA. WE PROVIDE MATERIAL THAT IS FREE FROM MERCURY CONTAMINATION AND RADIATION AT THE TIME OF SHIPMENT. NO WELD REPAIR IS DONE. CRUCIBLE INDUSTRIES LLC HOLDS A CERTIFICATE OF REGISTRATION TO ISO 9001:2008, PRESSURE EQUIPMENT DIRECTIVE (PED) 97/23/EC 7/2 ANNEX 1, PARAGRAPH 4.3 AND WORKS UNDER THE GUIDELINES OF NCA 3800 USING QP MANUAL DATED 8/15/13. WE ARE COMPLIANT WITH EU DIRECTIVE 2002/95/EC (ROHS), REACH, EN 10204 2004 3.1, AND DFARS 252.225.7001, 7002, 7008, 7009. MATERIAL IS OF NAFTA ORIGIN. MATERIAL TESTING IS PERFORMED ON A PROLONGATION OF THE BAR, IN COMPLIANCE WITH INDUSTRY STANDARDS ASTM A370, E8, E10, E18, E23, E45, E112, E381, E804, E572, E1019, ANDE1086. THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES, INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47. PRODUCTS, TECHNICAL DATA, TECHNOLOGY, AND SERVICES OF CRUCIBLE INDUSTRIES LLC ARE SUBJECT TO U.S. EXPORT CONTROLS UNDER THE APPLICABLE LAWS AND REGULATIONS OF THE UNITED STATES.

THE ABOVE MATERIAL WAS MANUFACTURED AND TESTED ACCORDANCE WITH ABOVE SPECIFICATIONS AND IS IN CONFORMANCE WITH THE SPECIFICATION REQUIREMENTS.

CRUCIBLE INDUSTRIES LLC

CERTIFIED BY



WILLIAM MASTROE - MANAGER OF QUALITY AND PROCESS ENGINEERING

A12954

13/4x2

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 4303
DATE: 15/04/27

PO / BATCH NO.: 28028/1132117

MATERIAL CERT REC'D: yes
QUANTITY RECEIVED: 11.833
QUANTITY INSPECTED: 11.833
QUANTITY REJECTED: _____

THICKNESS ORDERED: 2.00 X 1.750
THICKNESS RECEIVED: 1.990 X 1.760
SHEET SIZE ORDERED: _____
SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
PHOTO REQUIRED	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 14</u> DATE: <u>15/04/27</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Castle Metals®

A. M. Castle & Co.

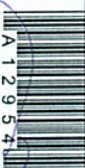
BORDEAU DE MARCHANDISES
CERTIFICAT DE CONFORMITE

Page 1 of 2

No de Formulaire d'Emballage / Shipment No:2579981

Expédié de / Ship From:	Vendu à / Sold To:	Expédié à / Ship To:	Livré à / Deliver To:	
A. M. Castle & Co. (Canada) Inc. MONTREAL - CASTLE METALS 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
Date d'expédition / Date Shipped	F.O.B.	Modalités de transport / Transporteur / Carrier		No du Bon de connaissance / BOL No
22-APR-2015	ORIGIN	Freight Terms Prepaid	MANITOULIN	2579981-2

Détails d'expédition / Shipment Details	Destination finale / Final Destination Branch - MON
---	---

N° de commande / Order No		N° de ligne / Line No	N° d'article / Item No		Description			
3813662		1	67340.BO		1.0000.3.0000.FLAT.303.STAINLESS.HR.ANN.PICKLED.144.0000 SPECIFICATIONS: ASTM A582			
N° de bon de commande / Purchase Order No		N° de pièces / Part Number		Qté commandée / Ordered Qty		Qté Facturée / Invoice Qty		
28028				122.40 LBS		12.8333 FT		
Détails / Details						END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS		
N° de livraison / Delivery No :	Usine / Mill	No de coulée / Heat Number		Code mec / Mech Id	Qty or PCS	Largeur / Width (IN)	Longueur / Length (IN)	Qté expédiée / Shipped Qty(LBS)
120023243		 A 1 2 9 5 4			1.0		154.0000	132.0000

Ces marchandises/technologies sont sujettes aux règlements de l'Export Administration et du département d'état des États-Unis. Si elles ont été exportées, elles doivent se conformer à ces règlements. Toute modification du contrat de transport contraire aux lois des États-Unis est interdite.

These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.

Nous certifions par la présente que le matériel couvert par cette certification est conforme aux spécifications susmentionnées et aux exigences applicables pour le matériel. Y compris toute spécification faisant partie de la description. Les rapports d'essai sont archivés pour fins de consultation. Toute requête concernant du matériel défectueux sera réglée à moins qu'elle ne soit faite par écrit à A. M. Castle & Co. dans les 60 jours suivant la livraison. Le matériel coupé sur mesure ou coupé par le client ne peut être retourné pour crédit.

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Date Printed: 22-APR-2015 10:16:34 AM



Castle Metals®

A. M. Castle & Co.

**BORDEREAU DE MARCHANDISES
CERTIFICAT DE CONFORMITE**

Page 2 of 2

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Ce matériel a été reçu et inspecté par
Reviewed by Authorized Castle Metals Representative:

Date:

Name:

22 AVR. 2015





575 STATE FAIR BLVD.
SOLVAY, NY 13209

Certificate of Test

Cert Date: 01/16/15

S
O
L
D
T
O
FRY STEEL COMPANY
13325 MOLETTE ST
SANTA FE SPRINGS, CA 90670

S
H
I
P
T
O
FRY STEEL COMPANY
13325 MOLETTE ST
SANTA FE SPRINGS, CA 90670

CIL ORDER NO.
P5-18576-4-01

HEAT NO.
A12954

CIL INSIDE SALES REP.
L HINMAN

SHIPPED FROM
SOLVAY, NY USA

CUSTOMER P.O.
48166-6/S30590

CUSTOMER PART NO.
S30590

QUANTITY SHIPPED 1700 LBS. 1 BDL

DESCRIPTION OF MATERIAL

SIZE

CRU 303 CD A 3.000 X 1.000 FLAT
AMS-5640-U TYPE 1 (SURF TO COND C) (PHY TO COND A) ASTM-A484-13A ASTM-A582-12 E1
MIL-S-7720-AMD. 1 QQS-763-C COND A QQS-764-B (OBSOLETE) (COND A)

CHEMICAL ANALYSIS

C	MN	P	S	SI	NI	CR	MO	CU	CB	TA
.052	1.71	.028	.200	.55	9.39	17.64	.31	.41	.100	.002

AS SHIPPED PROPERTIES

HARDNESS
BHN 196/201

LONGITUDINAL

TENSILE PSI 104,730
YLD. 2% PSI 79,710
% ELONG4D 37.3
RED/AREA% 60.5

MACRO-ACCEPTABLE

FRY STEEL CO. CERTIFIES THAT THIS IS
A TRUE COPY OF THE ORIGINAL MILL TEST
REPORT NOW ON FILE
RECEIVED AND INSPECTED

JAN 19 2015

BY 
CHIP BANDOVAL - Q.C. MANAGER

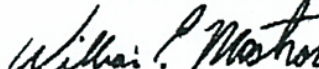


THANK YOU FOR SELECTING A QUALITY PRODUCT MANUFACTURED WITH PRIDE AT CRUCIBLE INDUSTRIES LLC LOCATED IN SOLVAY, NY 13209, USA. ALL MELTING DONE IN USA. WE PROVIDE MATERIAL THAT IS FREE FROM MERCURY CONTAMINATION AND RADIATION AT THE TIME OF SHIPMENT. NO WELD REPAIR IS DONE. CRUCIBLE INDUSTRIES LLC HOLDS A CERTIFICATE OF REGISTRATION TO ISO 9001:2008, PRESSURE EQUIPMENT DIRECTIVE (PED) 97/23/EC 7/2 ANNEX 1, PARAGRAPH 4.3 AND WORKS UNDER THE GUIDELINES OF NCA 3800 USING QP MANUAL DATED 8/15/13. WE ARE COMPLIANT WITH EU DIRECTIVE 2002/95/EC (ROHS), REACH, EN 10204 2004 3.1, AND DFARS 252.225.7001, 7002, 7008, 7009. MATERIAL IS OF NAFTA ORIGIN. MATERIAL TESTING IS PERFORMED ON A PROLONGATION OF THE BAR, IN COMPLIANCE WITH INDUSTRY STANDARDS ASTM A370, E8, E10, E18, E23, E45, E112, E381, E604, E572, E1019, AND E1086. THE RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES, INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47. PRODUCTS, TECHNICAL DATA, TECHNOLOGY, AND SERVICES OF CRUCIBLE INDUSTRIES LLC ARE SUBJECT TO U.S. EXPORT CONTROLS UNDER THE APPLICABLE LAWS AND REGULATIONS OF THE UNITED STATES.

THE ABOVE MATERIAL WAS MANUFACTURED AND TESTED ACCORDANCE WITH ABOVE SPECIFICATIONS AND IS IN CONFORMANCE WITH THE SPECIFICATION REQUIREMENTS.

CRUCIBLE INDUSTRIES LLC

CERTIFIED BY



WILLIAM MASTROE - MANAGER OF QUALITY AND PROCESS ENGINEERING

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M303
DATE: 15/04/27

PO / BATCH NO.: 28028/11/32117

MATERIAL CERT REC'D: 44
QUANTITY RECEIVED: 12.833
QUANTITY INSPECTED: 12.833
QUANTITY REJECTED: _____

THICKNESS ORDERED: 1.00 X 3.00
THICKNESS RECEIVED: 1.00 X 3.00
SHEET SIZE ORDERED: _____
SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL	(Y) N	
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT MATERIAL	(Y) N	
CORRECT REF # TO LINK CERT	(Y) N	
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.
RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 14 9-09</u> DATE: <u>15/04/27</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Castle Metals®

A. M. Castle & Co.

PACKING SLIP/
CERTIFICATE OF CONFORMANCE


Page 1 of 1

Shipment No:2579981

Ship From:		Sold To:		Ship To:		Deliver To:	
A. M. Castle & Co. MONTREAL - CASTLE METALS 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
Date Shipped	F.O.B.	Freight Terms		Carrier		BOL No	
22-APR-2015	ORIGIN	Prepaid		MANITOULIN		2579981-2	

Shipment Details

Final Destination Branch - MON

Order No	Line No	Item No	Description				
3813693	1	9166	1.2500.2.0000.FLAT.17CR-4NI.STAINLESS.HR.ANN.PICKLE.132.00 00-156.0000 SPECIFICATIONS: AMS 5643				
Purchase Order No	Part Number	Ordered Qty	Invoice Qty				
28028		12.00 FT	12.5000 FT				
Details	SHIP TO CASTLE, MONTREAL (POINTE-CLAIRE) CUSTOMS BROKER: GEORGE H. YOUNG END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS						
Delivery No.	Mill	Heat Number	Mech Id	PCS	Width (IN)	Length (IN)	Shipped Qty(LBS)
120014514	VALBRUNA CORPORATION	 2619071		1		150.0000	105.0000

These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.

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Reviewed by Authorized Castle Metals Representative:

Date:

Name:

22 APR. 2015



[Signature]

Acciaierie Valbruna S.p.A.



CERTIFICATO DI COLLAUDO
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION
EN 10204 (2004) , 3.1

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besteller/Käufer/Client
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
46801-FORT WAYNE, IN 46801-US

Produttore: **ACCIAIERIE VALBRUNA S.P.A.**
Hersteller/Usine productrice

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

Avviso di Spedizione: D-VI14007484
Lieferanzeige/Packing list/B.L.

Certificato nr: MEST479780/2014/
Prüfung/Test/Essa

Conferma ordine nr: EI14000009
Werk/Our Order/Fel nr.

Marchio di Fabbrica:
Zeichen des Lieferwerkes
Trade mark
Sigle de l'usine productrice



Stato di fornitura: Hot rolled Descaled COND. A Hot rolled
Lieferzustand/Delivery state/Etat de livraison

Tipo di Elaborazione: E+AOD
Erschmelzungsart/Melting process/Mode d'elaboration

Punzone del Collaudatore:
Stempel des Werkssachverständigen
Inspector's stamp/Poinçon de l'essayeur

Specifiche:
Anforderungen / Requirements / Exigences

VSI FLAT 2.630 A
AMS 5643 R S17400 A
ASTM A564 2010 S17400 A

AISI 630
ASME SA564 2010 S17400 A (0)
ASTM F899 2012 630

AMS 2303 F
ASTM A370 2012 A

(0) SEC. II PT.A 2010 EDITION ADD. 2011a **DAS**

Qualità: 630
Werkstoff/Grade/Nuance

Marca: **V174**
Markenbezeichnung
Brand/Nuance

Tolleranza: **ASTM A484-11 TABLE 5**
Toleranz /Allowance/Tolerance

Punzonatura: 630
Kennzeichnung/Marking/Marquage

Pos. nr. Pos. nr. Item nr. Nr. de poste	Oggetto Gegenstand Product Description Descr. du produit	Dimensioni - In Abmessungen Dimension Dimension	Lunghezza - In Länge Length Longueur	Colata Schmelze Heat Coulée	Pezzi Stückzahl Pieces Pièces	Peso - LB Gewicht Weight Poids	Lotto nr. Losnr. Lot nr. Lot nr.
0130	Flat	2,0000 x 1,2500	123 / 151	261907		2.161	307010190

TEST ALLO STATO DI FORNITURA

Test on delivery condition Prüfung auf lieferbarem produkt test a l'état de fourniture Prueba sobre el material así como entregado

TEST	Provetta/Probestab Specimen/Eprouvette Long diam. Spalte Breite Diam. Dicke Width Diam. Thickness Long. diam. epate mm	°F	Posiz. Saggio Proveage Lorenst Emploiment 1)	Snervamento Streckgrenze Yield Stress Limite élastique	Snervamento Streckgrenze Yield Stress Limite élastique	Resistenza Zugfestigkeit Tensile strength Résistance à traction	Allungamento Bruchdehnung Elongation Allongement	Strizione Einengung Reduction of area Striction	Resilienza Kerbschlagarbeit Impact Value Resilience	Durezza Härte Hardness Dureté HB
Valori richiesti 1 Anforderungen/Required values Valeurs demandées		min max		-	-	-	-	-	-	363
A										339

TEST		min	max
A	Delta Ferrite		5,0
A	Grain size for ASTM E112		5
A	RATINGS FREQUENCY		1,10
A	RATINGS SEVERITY		1,05

Sample cond. H900

Tipo Trattamento Wärmebehandlung Heat Treatment Traitement Thermique				Temperatura Temperatur Temperature Température	Raffreddamento Abkühlung Cooler Raffroidissement	Permanenza Haltezeit Permanence Maintien	Tipo Trattamento Wärmebehandlung Heat Treatment Traitement Thermique				Temperatura Temperatur Temperature Température	Raffreddamento Abkühlung Cooler Raffroidissement	Permanenza Haltezeit Permanence Maintien
Aging				900 °F	AIR	60 "							
TEST	Provetta/Probensab Specimen/Eprouvette Long diam. Spalte Breite Diam. Dicke Width Diam. Thickness Long. diam. epate mm	°F	Posiz. Saggio Proveage Lorenst Emploiment 1)	Snervamento Streckgrenze Yield Stress Limite élastique Rp 0,2% k.s.i.	Snervamento Streckgrenze Yield Stress Limite élastique	Resistenza Zugfestigkeit Tensile strength Résistance à traction Rm k.s.i.	Allungamento Bruchdehnung Elongation Allongement E 4d %	Strizione Einengung Reduction of area Striction RA %	Resilienza Kerbschlagarbeit Impact Value Resilience	Durezza Härte Hardness Dureté HB			
	Valori richiesti 1 Anforderungen/Required values Valeurs demandées	min max		170	-	190	-	10	-	388			
	B	12,5	68	L	184		200	15	52		432		

1) L=longitudinale/längs, T=transversale/quers, Q=Tangenziale/tangentiel

Mechanical properties according to ASTM A370.
Delta Ferrite according to AMS 2315.

Vicenza, 04/03/14 VCQ008 (Mod. MCE2)	Il collaudatore di stabilimento / der Werkssachverständige / Works inspector / L'agent d'usine M. Rizzotto	Pagina - 1 di 2
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Acciaierie Valbruna S.p.A.



CERTIFICATO DI COLLAUDO
ABNAHMEPRUEFZEUGNIS
INSPECTION CERTIFICATE
CERTIFICAT DE RECEPTION
EN 10204 (2004) , 3.1

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besteller/Purchaser/Client
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
46801-FORT WAYNE, IN 46801-US

Produttore: **ACCIAIERIE VALBRUNA S.P.A.**
Hersteller/Item/Usine produce

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER

Avviso di Spedizione: D-VI14007484
Lieferanzeiger/Packing list/B.L.

Certificato nr: MEST479780/2014/
Prüfung/Test/Essa

Conferma ordine nr: E11 4000009
Werks/Our Order/Fab nr.

Marchio di Fabbrica:
Zeichen des Lieferwerkes
Trade mark
Sigle de l'usine produce



Stato di fornitura: Hot rolled Descaled COND. A Hot rolled
Lieferzustand/Delivery state/Etat de livraison

Tipo di Elaborazione: E+AOD
Erschmelzungsart/Melting process/Mode d'elaboration

Punzone del Collaudatore:
Stempel des Werkssachverständigen
Inspector's stamp/Poinçon de l'essayeur

DAS
14
9-89

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata / Heat Schmelze/Coulée	min - max 0,070	- 1,00	- 1,00	15,00 17,00	- 0,50	3,00 5,00	3,00 5,00	-	- 0,040	- 0,030	- 0,050	-	-	-	-
	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	N %	Ta %			
261907	0,037	0,39	0,49	15,11	0,21	3,37	4,53	0,091	0,024	0,001	0,039	0,0014			
Colata / Heat Schmelze/Coulée	min 0,150 max 0,350	5°C 0,350													
	Nb%+Ta%	Cb(Nb)%													
261907	0,272	0,271													

Micro and macro etch test: satisfactory.
Produced without class I-II Ozone depleting substances.
Material solution annealed 1904F for 1 h ,
air cooled to below 90F.
Material is DFARS Compliant

Sono state soddisfatte tutte le condizioni richieste
Die gestellten Anforderungen sind it. Anlage erfüllt
The material has been furnished in accordance with the requirements
Le matériel a été trouvé conforme aux exigences

Controllo antimescolanza: OK
Verwachsungsprüfung: spektralanalytisch durchgeführt
Antimixing testing performed: OK
Contrôle antimélange fait: r.a.s.

Controllo visivo e dimensionale: soddisfa le esigenze
Besichtigung und Ausmessung: ohne Beanstandung
Visual inspection and dimensional checks: satisfactory
Contrôle visuel et dimensions: satisfaisant

Melted and manufactured in Italy No welding or weld repair Material free from Mercury contamination
We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.

The Quality Management System is Certified acc. Pressure Equipment Directive [97/23/EC] Annex 1, s. 4.3 by TÜV and LLOYD'S

Any act of tampering, modification, alteration, counterfeiting and/or falsification and/or any other action which modifies the contents of this test certificate shall constitute a violation of applicable civil and criminal laws. Acciaierie Valbruna shall protect its rights and interests before any competent court, authority and jurisdiction.

The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements specified by certified norms and standards. Should the product be used for more severe, critical and/or in any case different applications than those the material is generally intended for, any different and/or supplementary requirements shall be specifically demanded, at least, upon order of the Product by the Purchaser. Acciaierie Valbruna SpA shall not be responsible for any improper use of the Products.

Vicenza, 04/03/14

VCO008
(Mod. MCE2)

Il collaudatore di stabilimento / der Werkssachverständige / Works inspector / L'agent d'usine

M. Rizzotto

Pagina - 2 di 2

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 417-4
DATE: 15/04/27

PO / BATCH NO.: 28028/413217

MATERIAL CERT REC'D: 44
QUANTITY RECEIVED: 12.50
QUANTITY INSPECTED: 12.50
QUANTITY REJECTED: _____

THICKNESS ORDERED: 1.25X2.00
THICKNESS RECEIVED: 1.25X2.00
SHEET SIZE ORDERED: _____
SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y N	
CORROSION	Y <input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y N	
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y N	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>14</u> <u>9-89</u>	SIGNED OFF BY: _____
DATE: <u>15/04/27</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO28028**

Purchase Order Date 4/6/2015

PO Print Date 4/6/2015

Page Number 1 of 3

Order From : VC-MET001
METAUX CASTLE
A.M. CASTLE & CO. (CANADA) INC. - C/O 910720
P.O. BOX 4090 STN A
TORONTO, ON M5W OE9
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 514 694 9575

Ship To Contact
Ship To Phone
Ship Via: VENDOR'S TRUCK
Ship Acct:

Buyer
Customer POID
Customer Tax # 10127-2607
Terms Net 10
Currency CAD
FOB FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M174B1.250X02.000	17-4 SS Bar 1.250 x 2.00	4/27/2015 Yes 4/27/2015		12.00 f	\$64.27	\$771.24

MATERIAL: 17-4 PH SS BAR AS PER AMS 5604/5643
GRAIN MUST BE ALONG LENGTH OF BAR
MINIMUM YIELD TENSILE STRENGTH = 100KSI
MINIMUM ULTIMATE TENSILE STRENGTH = 150KSI

Line Total: \$771.24

2	M303B1.000X03.000	303 BAR 1" X 3'	4/27/2015 Yes 4/27/2015		12.00 f	\$125.25	\$1,503.00
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MATERIAL: AISI 303 SS BAR AS PER ASTM A582
NOTE: AISI 304/316 NOT ACCEPTABLE

Line Total: \$1,503.00

Note:

4/6/2015



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO28028**

Purchase Order Date 4/6/2015

PO Print Date 4/6/2015

Page Number 2 of 3

Order From : VC-MET001
METAUX CASTLE
A.M. CASTLE & CO. (CANADA) INC. - C/O 910720
P.O. BOX 4090 STN A
TORONTO, ON M5W OE9
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 514 694 9575

Ship To Contact
Ship To Phone
Ship Via: VENDOR'S TRUCK
Ship Acct:

Buyer
Customer POID
Customer Tax # 10127-2607
Terms Net 10
Currency CAD
FOB FCA - (Free Carrier)

3	M303B2.000X1.750	303 BAR 2" X 1.750"	4/27/2015 Yes 4/27/2015	12.00 f	\$143.56	\$1,722.72
MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE						11.8333 FT. SP15-04-24. Line Total: \$1,722.72
4	M303H0.500	303 HEX BAR .500	4/14/2015 Yes 4/14/2015	12.00 f	\$4.31	\$51.72
MATERIAL: AISI 303 SS HEX BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE						SP15-04-16. Line Total: \$51.72

Note:

4/6/2015



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO28028**

Purchase Order Date 4/6/2015

PO Print Date 4/6/2015

Page Number 3 of 3

Order From : VC-MET001
METAUX CASTLE
A.M. CASTLE & CO. (CANADA) INC. - C/O 910720
P.O. BOX 4090 STN A
TORONTO, ON M5W OE9
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 514 694 9575

Ship To Contact
Ship To Phone
Ship Via: VENDOR'S TRUCK
Ship Acct:

Buyer
Customer POID
Customer Tax # 10127-2607
Terms Net 10
Currency CAD
FOB FCA - (Free Carrier)

5	71401-45	PROCUREMENT QUALITY CLAUSES	4/27/2015	1.00	\$0.00	\$0.00
			No 4/27/2015			
		Procurement Quality Clauses A005 right of entry A012 chemical and physical test report A016 personnel qualification A017 raw material identification (as applicable) A026 certification of material conformance A041 quality management system A042 dart notification by supplier A043 retention of quality document				

Line Total: \$0.00

PO Total: \$4,048.68

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 1

Change Date: 4/6/2015